Yadkin County Community Health Assessment

Report to Stakeholders September 12, 2007

Sheila S. Pfaender, M.S.

Senior Research Associate

Assistant Director for Program and Resource Development



Purpose of the Community Health Assessment

- Describe the health status of the community.
- Create a report that will serve as a resource for the Yadkin County Health Department, Healthy Carolinians of Yadkin County, and other community organizations.
- Provide direction for the planning of disease prevention and health promotion services and activities.

Three Contributing Viewpoints

Secondary Data	Citizen Opinion and Data	Leader Opinion
-Demographic -Socioeconomic -Health -Environmental	Community survey (n=225)	Interviews by invitation (in process)

We Take Special Notice When...

- Yadkin County statistics deviate from North Carolina statistics.
- Trend data show significant changes over time.
- There are significant age, gender, or racial disparities.

Definitions and Symbols

Arrows

- Arrow up (▲) indicates an increase; two arrows indicates a doubling; three arrows a tripling, etc.
- Arrow down (▼) indicates a decrease; two arrows indicates a halving; three arrows a reduction to one-third, etc.

Color

- Red indicates a "worse than" or negative difference
- Green indicates a "better than" or positive difference
- Blue indicates a likely unstable rate or difference based on a small number of events; figures in blue should be used with great caution.

Demographic and Socioeconomic Data

Population Characteristics

- Yadkin County population is growing
- Population will become more urban
- Population will become more dense

1980	1990	2000	2007	2010
			(Est.)	(Proj.)
28,493	30,488	36,348	38,318	39,538

Population Growth

 Rate of county growth will slow and continue to lag behind the state's overall growth rate

Percent Population Growth			
Decade	Decade Yadkin NC		
1970 - 1980	15.6	15.6	
1980 - 1990	7.2	12.8	
1990 - 2000	18.9	21.3	
2000 - 2010	8.8	16.2	
2010 - 2020	10.4	13.1	
2020 - 2030	9.7	12.9	

"Older" Population

• 2000 Median age = 37.6 (NC=35.3)

Percent of Total Population (2000)				
Age Group	Yadkin	NC		
0-4 Years	6.6	6.7		
5-19	19.6	21.5		
20-24	5.3	7.2		
25-34	14.1	15.1		
35-44	16.0	16.0		
45-54	13.7	13.5		
55-64	10.6	9.0		
65 and over	14.2	12.0		

Minority Populations

- 2000 Minority Population = 7.5%
 - African American = 3.4%
 - Hispanic Origin (any race) = 6.5%
 - Native American = 0.2%
 - -Asian = 0.2 %
 - Other = 2.9%
- 2000 NC Minority total = 27.9%



Economy

- 2004 Per Capita Personal Income
 - -\$25,013
 - -\$5,540 below NC average
- 2004 Median Household Income
 - -\$38,473
 - -\$2,390 below NC average

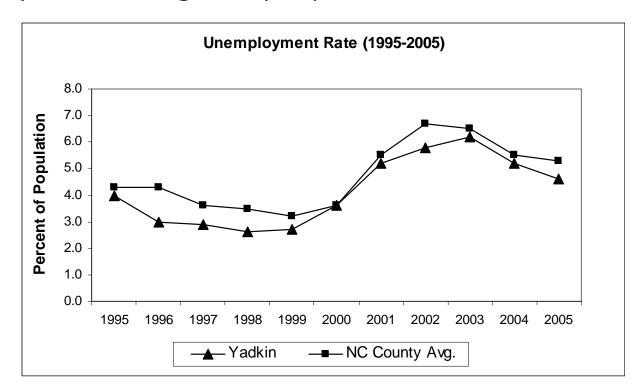
Employment

- Employment in the county has grown in the recent past, but not on par with NC as a whole.
 - Yadkin Net Change 2002-2006 = +4.1
 - -NC Net Change 2002-2006 = +7.2
- Local Employment (August 2006)
 - Manufacturing = 27.2%
 - Health Care/Social Assistance = 12.7%
 - Educational Services = 10.6%
 - Accommodation/Food Services = 10.2%



Unemployment

- Business Closings and Layoffs 2002-2007
 - 4 closings affecting 290 people
 - 1 layoff affecting 115 people



Poverty

- 1980 Annual Poverty Rate
 - Yadkin Overall = 14.3 (NC = 14.8)
- 1990 Annual Poverty Rate
 - Yadkin Overall = 12.0 (NC = 13.0)
- 2000 Annual Poverty Rate
 - Yadkin Overall = 10.0 (NC=12.3)
- 2004 Annual Poverty Rate
 - Yadkin Overall = 11.6 (NC = 13.8)

Poverty and Age

- In Yadkin County in 2004:
 - -11.6% of persons of all ages were in poverty (NC=13.8%)
 - -16.0% of all persons under age 18 were in poverty (NC=18.7%)

Poverty and Race

- As of the 2000 Census in Yadkin County:
 - 10.0% of the total population was in poverty (NC=12.3%)
 - -9.5% of the white population was in poverty (NC=8.5%)
 - 17.0% of the black population was in poverty (NC=22.9%)

Children and Families

In Yadkin County in 2000:

- 24.0% of population was < 18 years of age
- 2,339 family homes (22.1%) were headed by a single parent (NC = 32.3%)
- In Yadkin County between 1990 and 2000:
 - Percent households with a single parent head of household ▲ 18% (NC ▲ 21%)
 - Percent households with single male parent head of household ▲ 107% (NC ▲ 65%)

Child Care

- Number of Yadkin County children in regulated child care ▲ 58% between 2001 and 2005 (NC ▲ 23%)
- Percentage of Yadkin County children in regulated child care receiving a subsidy ▼ 31% during the same interval (NC ▼ 14%).
- In 2005, there were 61 Yadkin County children eligible for and requesting a child care subsidy who did not receive one.

Education

- Compared to the average NC county, Yadkin County has:
 - -8% fewer high school graduates (78.1%) (2000)
 - -54% fewer college graduates (2000)
 - -17% lower HS drop-out rate (SY2005)
 - -1.1% lower average SAT score (2005)
 - higher proficiency among 8th graders on EOG math and reading tests (SY2005)

Crime and Safety

- Compared to the average NC county, Yadkin County had *lower* rates for index (-40%) violent (-33%) and property (-41%) crime in 2005.
- The most common property crime in Yadkin County in 2005 was larceny (theft of property without the use of force)
- The most common violent crime in 2005 was aggravated assault (purposeful use of force, often involving a weapon, to inflict bodily harm)

Crime and Safety

- Of 11,910 registered sex offenders in NC in 2007, 40 live in Yadkin County.
- 3 clandestine drug lab busts have taken place in the county since 2002.
- As of 2004 there were 2 gangs reported in the county
- There were 2 domestic violence-related homicide reported between 2002 and 2007
- In 2006, 114 ex parte orders and 53 protective orders were issued in connection with domestic violence complaints (▼ from 128/61 in 2005)

Juvenile Crime

 Between 2005 and 2006 the *number* of complaints of **undisciplined** youth (ages 6-17) in Yadkin County ▼ 20%, and the *rate* ▼ 22%.

Undisciplined refers to disobedience beyond disciplinary control of parent/guardian (e.g., truancy, vagrancy, running away from home for more than 24 hours).

Over the same period the *number* of complaints of **delinquent** youth in the county ▲ 27%, and the *rate* ▲ 24%.

Delinquency refers to acts committed by youths that would be crimes if committed by an adult.

Abuse and Neglect

Child Abuse and Neglect:

Yadkin County Complaints Substantiated

	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
Number	114	126	81	81	72
Rate per 1,000	15%				9%
	(2001)				(2006)

Health Care Practitioners

- Ratios of persons to provider are higher in Yadkin County than NC average (2005):
 - 2,338 persons: 1 primary care MD (NC = 1,056:1)
 - 1,655 persons: 1 physician extender (NC = 749:1)
 - 295 persons: 1 registered nurse (NC = 109)
 - -6,234 persons: 1 dentist (NC = 2,302:1)

Health Insurance

 Yadkin County population without health insurance (2004):

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-Overall 20.3\% (NC = 17.5%)
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- Under 18 = 13.3%
- -18-64 = 23.0%
- Overall percent uninsured in Yadkin County ▲ 10% between 2002 and 2003 and ▼ 3% between 2003 and 2004

Health Statistics

Maternal and Child Health

- Pregnancy and Birth Rates per 1,000 females (2003-2005)
 - Yadkin Overall (ages 15-44) Pregnancy Rate = 70.5 (NC = 81.5)
 - Yadkin Overall Birth Rate = 61.5 (NC = 65.8)
 - Yadkin Teen (ages 15-19) Pregnancy Rate = 59.5 (NC = 61.7)
 - Overall Teen Pregnancy Rate (2005) = 56.4 (NC = 61.7)
 - White Teen Pregnancy Rate (2005) = **54.8** (NC = 50.9)
 - Minority Teen Pregnancy Rate (2005) = 75.0 (NC = 82.3)
 - Yadkin Teen Birth Rate = 47.5 (NC = 46.6)



Pregnancy Risk Factors

- High Parity Births (2001-2005)
 - Yadkin mothers <30 = 16.6% (NC = 18.3%)
 - Yadkin mothers $\ge 30 = 19.2\%$ (NC = 18.7%)
- Short Interval Births (2001-2005)
 - Yadkin mothers = 11.9% (NC = 12.2%)
- Late/No Prenatal Care (2003-2005)
 - Yadkin Overall = 8.4% (NC = 15.9%)
 - Yadkin Teens = 11.7% (NC = 28.9%)
- Smoking During Pregnancy (2003-2005)
 - Yadkin Overall = 19.2% (NC = 12.4%)
 - Yadkin Teens = 22.1% (NC = 16.4%)

Birth Outcomes

2001-2005

- Low Birth Weight (<5.5 pounds)
 - Yadkin Whites = 7.5% (NC = 7.4%)
 - Yadkin Minorities = 16.0% (NC = 13.4%)
- Very Low Birth Weight (<3.3 pounds)
 - Yadkin Total = 1.4% (NC = 1.9%)
 - Yadkin Minorities = 1.6% (NC = 3.6%)
- Infant Mortality (per 1,000 live births)
 - Yadkin Whites = 6.3 (NC = 6.1)
 - Yadkin Minorities = 26.7 (NC = 14.7)

Leading Causes of Death

	Age-Adjusted Rates (2001-2005)	No. of Deaths	Yadkin Co. Mortality Rate	Rate Difference from NC
1.	Heart disease	432	212.6	-6%
2.	Cancer (all kinds)	419	202.1	+2%
3.	Stroke	151	74.8	+16%
4.	Chronic lower respiratory disease	109	52.8	+13%
5.	Unintentional non-motor vehicle injury	70	36.5	+40%
6.	Alzheimer's disease	63	31.7	+17%
7.	Diabetes	58	28.3	+3%
8.	Pneumonia and influenza	45	22.5	-3%
9.	Unintentional motor vehicle injury	42	22.4	+16%
10.	Kidney disease	39	19.5	+9%
11.	Septicemia	33	16.5	+14%
12.	Suicide	25	13.3	+15%
13.	Chronic liver disease and cirrhosis	21	10.6	+20%
14.	Homicide	10	5.7	-21%
15.	HIV/AIDS	4	1.8	-65%

Gender Disparities in Mortality

	Leading Causes of Death Age-Adjusted Rates, 2001-2005	No.	Yadkin Rate for Males	Rate Diff. from Females
1.	Unintentional motor vehicle injury	30	34.5	+2.8X
2.	Lung cancer	96	105.7	+2.8X
3.	Colon cancer	21	25.2	+89%
4.	Chronic lower respiratory disease	59	74.2	+81%
5.	Heart disease	225	274.2	+68%
6.	Total cancer	231	263.2	+65%
7.	Septicemia	16	20.6	+51%
8.	Pneumonia/influenza	21	28.5	+50%
9.	Unintentional non-motor vehicle injury	34	40.8	+31%
10.	Diabetes	27	32.9	+24%
11.	Stroke	59	76.9	+6%
12.	Kidney disease	13	18.3	-9%
13.	Alzheimer's disease	15	23.4	-35%

Racial Disparities in Mortality

- Because the minority population in Yadkin County is small, annual minority mortality figures for certain conditions are too low for comparison.
- For all causes of death, the 2001-2005 ageadjusted mortality rate for minorities was 3% higher than the comparable rate for whites.
- In addition, mortality rates were higher among minorities than among whites for:
 - Stroke (by 2.2X)
 - Heart disease (by 21%)
 - Total cancer (by 2%)

Mortality Trends 1979-2005

L	eading Causes of Death in Yadkin County	Overall Trend Direction
1.	Heart disease	▼
2.	Cancer (all kinds)	A
3.	Stroke	▼
4.	Chronic lower respiratory disease	**
5.	Unintentional non-motor vehicle injury	A
6.	Alzheimer's disease	n/a
7.	Diabetes	
8.	Pneumonia and influenza	▼
9.	Unintentional motor vehicle injury	▼
10.	Kidney disease	
11.	Septicemia	
12.	Suicide	A
13.	Chronic liver disease and cirrhosis	
14.	Homicide	A
15.	HIV/AIDS	A

Cancer Mortality Trends 1979-2005

Leading Causes of Cancer Deaths in Yadkin County		Overall Trend Direction
Breast Cancer	Incidence	
	Mortality	
Colorectal Cancer	Incidence	
	Mortality	
Lung Cancer	Incidence	
	Mortality	A
Prostate Cancer	Incidence	▼
	Mortality	▼

Sexually Transmitted Disease

- In 2001-200r5 Yadkin County overall incidence rates were lower than NC rates for:
 - -Gonorrhea by 79%
 - -Syphilis by 66%
 - Chlamydia by 71%
 - -HIV/AIDS by 65%

Mental Health

- Persons served in alcohol/drug treatment centers (total in FY2006 and change since FY2005):
 - Yadkin = 7 (▼ 36%)
 - NC county avg. = 40 (\blacktriangle 8%)
- Persons in state psychiatric hospitals:
 - $Yadkin = 80 (\blacktriangle 54\%)$
 - NC county avg. = 183 (no change)
- Persons served by MH/DD/SAS area program:
 - Yadkin = 1,445 (11%)
 - NC avg. = 3,224 (▼ 4%)

Obesity in Adults

- According to calculation based on the 2006 Yadkin County Region (Davie, Rockingham, Stokes, Surry and Yadkin) Behavioral Risk Factor Surveillance System (BRFSS) survey:
 - -32% of adults were obese (NC = 27%)
 - -34% of adults were overweight (NC = 36%)
- Nationally, 65% of adults are overweight or obese

Obesity in Children

- According to 2006 NC Nutrition and Physical Activity Surveillance System (NC-NPASS) data, the proportion of overweight children in Yadkin County:
 - -2-4 year olds = 15.0% (NC = 15.2%)
 - -5-11 year olds = 25.2% (NC = 25.2%)
 - -12-18 year olds = 17.3% (NC = 29.5%)
- Proportion of children in Yadkin County at risk of being overweight:
 - -2-4 year olds = **16.2%** (NC = 15.7%)
 - -5-11 year olds = 19.6% (NC = 16.8%)
 - -12-18 year olds = 16.0% (NC = 17.3%)



Community Health Survey

Survey Participants

225 Respondents

Demographics of survey respondents

- 70% worked or attended school elsewhere
- -31% < age 40; $31\% \ge$ age 65
- 64% female
- 5% Black, 12% Hispanic, 0% Native American
- 23% did not graduate from high school
- 12% had a college or graduate degree
- 45% worked full- or part-time
- 7% were unemployed
- 9% were homemakers
- 33% were retired

Survey Participants 210 Respondents

Socio-economic characteristics

- Income

- 32% had household income < \$20,000
- 45% had household income between \$20,000 and \$50,000
- 23% had household income \$50,000 or greater

Family

- 23% supported only themselves on their income
- 40% supported 2 people
- 25% supported 3-4 people
- 12% supported ≥ 5 people
- 13% were primary caregiver for a senior adult, grandchild, disabled person or foster child



Survey Participants 210 Respondents

Health care coverage

- 28% had insurance paid by their employer
- 2% had insurance paid by spouse's employer
- 18% had insurance paid by self
- 12% had Medicaid
- 21% had Medicare
- 3% had VA benefits
- 20% lacked health insurance coverage at some point during the past 12 months

Social Service Access

Problems accessing social services

- When asked about their problems in accessing an array of social services, 81-97% of survey respondents reported they did not need the referenced services.
- Another 1-9% reported accessing the services they needed with no problems.
- Only 1-3% of the respondents reported having difficulty accessing the referenced services when they needed them, usually due to cost.

Health Service Access

- Where respondents go when they are sick or need health advice
 - 82% to a doctor's office
 - 7% to hospital emergency department
 - 6% to health department
 - 5% to "Other"

Health Service Access

- Where respondents get most of their health-related information:
 - 56% from doctor, nurse or pharmacist
 - 9% from the Internet
 - 9% from the health department
 - 8% from newspapers, magazines or TV
 - 6% from family and friends
 - 2% from the hospital
 - 1% from church
 - 1% from help lines
 - 6% from "Other" (school, library, work, insurer)



Medical Service Access

Problems accessing health services

- When asked about their problems in accessing an array of medical services, 74-98% of survey respondents reported they did not need the referenced services.
- Another 2-22% reported accessing the services they needed with no problems.
- Only 1-2% of the respondents reported having difficulty accessing the referenced services when they needed them, due mostly to cost, lack of information about a service, or the unavailability of the service.

Medical Care Access

- Problem accessing medical care
 - -87% had not had a problem recently
 - -12% did have a problem (n=27)
 - Lack of health insurance: 30% (n=8)
 - Personal share of cost too high: 15% (n=4)
 - Insurance didn't cover needed service: 11% (n=3)
 - Provider would not take insurance or Medicaid: 11% (n=3)
 - Other (lack of transportation, couldn't get an appointment, not taking new patients): 19% (n=5)



Medical Care Access

Last routine medical checkup

- Within the past year: 60%
- 1-2 years ago: 21%
- 3-5 years ago: 5%
- Five or more years ago: 12%
- Have never had a checkup: 2%

Dental Care Access

- Problem accessing dental care
 - -85% had not had a problem recently
 - -15% did have a problem (n=34)
 - Lack of dental insurance: 65% (n=22)
 - Personal share of cost too high: 41% (n=14)
 - Lack of transportation: 9% (n=3)
 - Insurance didn't cover needed service: 6% (n=2)
 - Didn't know where to go: 3% (n=1)
 - Couldn't get an appointment: 3% (n=1)

Dental Care Access

Last routine dental checkup

- Within the past year: 57%
- 1-2 years ago: 20%
- 3-5 years ago: 8%
- Five or more years ago: 13%
- Have never had a checkup: 1%

Prescription Drug Access

- Problem getting R_x filled
 - -87% had not had a problem recently
 - -13% did have a problem (n=28)
 - Did not have insurance: 36% (n=10)
 - Personal share of cost too high: 29% (n=8)
 - Insurance didn't cover needed Rx: 18% (n=5)
 - Pharmacy would not take insurance or Medicaid: 11% (n=3)
 - Had a problem with Medicare Part D: 4% (n=1)
 - Other (lack of transportation, didn't know where to go, pharmacy error): 14% (n=4)



Mental Health

- Where to refer a MH/DD/SA problem
 - Doctor: 21%
 - Crossroads Behavioral Health: 15%
 - Minister/religious official: 15%
 - Private counselor or therapist: 7%
 - Support group (e.g., AA, Al-Anon): 7%
 - School counselor: 1%
 - New Dawn Recovery: <1%</p>
 - Other (health department, hospital, employer,
 911, DSS, hotline, friend, TriPop): 11%
 - Don't know: 24%



Self-Rated Personal Health

Very healthy: 13%

- Healthy: 48%

Somewhat healthy: 26%

- Unhealthy: 10%

- Very unhealthy: 3%

Exercise

- Did exercise in past 4 weeks: 69%
- Did not exercise in past 4 weeks: 31%
 - Physically disabled: 19%
 - Not enough time to exercise: 23%
 - Too tired to exercise: 13%
 - Job is physical or hard labor: 10%
 - I don't like to exercise: 9%
 - Exercise is not important to me: 4%
 - Can't find exercise partners or team: 4%
- Exercise frequency in past 4 weeks
 - 7 or fewer times: 28%
 - 8-21 times: 43%
 - More than 21 times: 28%



Nutrition – Servings per week

Vegetables

• None: 2%

• 1-7: 62%

8-14: 27%

• 15 or more:10%

Fruit

• None: 5%

• 1-7: 69%

• 8-14: 19%

• 15 or more: 8%

Alcohol consumption (in past 30 days)

- None: 76%

Potential binge drinkers: 0%

Tobacco use

Never smoked: 55%

Used to smoke but have quit: 19%

- Smoke occasionally: 1%

- Smoke 1 pack or less/day: 21%

Smoke more than 1 pack/day: 5%

- Exposure to second-hand smoke
 - **Exposed: 71%**
 - In restaurants: 36%
 - At home: 24%
 - At work: 14%
 - Other (hospital, school, laundromat, homes of friends): 9%
 - Support tobacco-free environments
 - Yes: 69%
 - No: 28%
 - Don't know: 2%

- Prostate Exams (Age > 40)
 - Get an annual prostate exam: 62%
- Mammograms (Age > 40)
 - Get an annual mammogram: 75%
- Pap Tests (Age > 21)
 - Get a Pap test at least every other year: 68%
- Colon Cancer Screenings (Age > 50)
 - Ever had a colon cancer screening: 67%



Personal Health

Personal Health Diagnoses

Asthma: 10%

Depression: 18%

Diabetes: 15%

High blood pressure: 36%

High cholesterol: 34%

Obesity/overweight: 25%

Osteoporosis: 9%

Quality of Life in Yadkin County

- A good health care system
 - Agree or strongly agree: 73%
- A good place to raise children
 - Agree or strongly agree: 96%
- A good place to grow old
 - Agree or strongly agree: 90%
- Plenty of economic opportunity
 - Disagree or strongly disagree: 73%



Quality of Life in Yadkin County

- A safe place to live
 - Agree or strongly agree: 95%
- Plenty of support for people in times of stress or need
 - Agree or strongly agree: 81%

"Most Important" Health Problems

1.	Cancer (60%)	12. Asthma
2.	Heart disease (58%)	13. Communicable disease
3.	Diabetes (48%)	14. Kidney disease
4.	Problems of aging (42%)	15. HIV/AIDS
5.	Obesity/overweight (37%)	16. STDs
6.	Stroke (28%)	17. Birth defects
7.	Lung disease (26%)	18. Liver disease
8.	Mental health	19. Gun-related injuries
9.	Motor vehicle accidents	20. Other injuries
10.	Dental health	21. Infant death
11.	Teen pregnancy	22. Other (allergies, stress, arthritis)

"Most Important" Unhealthy Behaviors

1.	Drug abuse (72%)	9. Violent behavior
2.	Alcohol abuse (66%)	10. Not using seatbelts
3.	Smoking/tobacco use (48%)	11. Not getting preventive DDS care
4.	Poor eating habits (40%)	12. Not using child safety seats
5.	Lack of exercise (38%)	13. Not getting immunizations
6.	Not getting preventive MD care (38%)	14. Suicide
7.	Reckless/drunk driving (33%)	15. Not getting prenatal care
8.	Having unsafe sex	16. Other (having children can't afford)

Comparing Data and Opinion

	Health Problems		Health Problems
	(via Mortality Data)	(vi	a Community Survey Opinion)
1.	Heart disease	1.	Cancer
2.	Cancer (all kinds)	2.	Heart disease
3.	Stroke	3.	Diabetes
4.	Chronic lower respiratory disease	4.	Problems of aging
5.	Unintentional non-motor vehicle injury	5.	Obesity/overweight
6.	Alzheimer's disease	6.	Stroke
7.	Diabetes	7.	Lung disease
8.	Pneumonia and influenza	8.	Mental health
9.	Unintentional motor vehicle injury	9.	Motor vehicle accidents
10.	Kidney disease	10.	Dental health
11.	Septicemia	11.	Teen pregnancy
12.	Suicide	12.	Asthma

Linking Behavior to Health

Health Problems	Unhealthy Behavior		
(via Community Survey Opinion)	(via Community Survey Opinion)		
1. Cancer	1. Drug abuse		
2. Heart disease	2. Alcohol abuse		
3. Diabetes	3. Smoking/tobacco use		
4. Problems of aging	4. Poor eating habits		
5. Obesity/overweight	5. Lack of exercise		
6. Stroke	6. Not getting preventive MD care		
7. Lung disease	7. Reckless/drunk driving		
8. Mental health	8. Having unsafe sex		
9. Motor vehicle accidents	9. Violent behavior		
10. Dental health	10. Not using seatbelts		
11. Teen pregnancy	11. Not getting preventive DDS care		
12. Asthma	12. Not using child safety seats		

"Most Important Community Issues"

1 Unampleyment (479/)	12 Uncofo /unmaintained roads
1. Unemployment (47%)	13. Unsafe/unmaintained roads
2. Low income/poverty (47%)	14. Disaster preparedness
3. Lack of health insurance (47%)	15. Violent crime
4. Dropping out of school (42%)	16. Racism
5. Affordability of health services (42%)	17. Pollution
6. Neglect and abuse (29%)	18. Homelessness
7. Animal control	19. Availability of healthy food choices
8. Lack of recreational facilities	20. Few culturally appropriate services
9. Lack of healthcare providers	21. Bioterrorism
10. Availability of child care	22. Other: Few activities for kids
11. Inadequate/unaffordable housing	Trash dumping
12. Lack of transportation options	Lack of water/sewer

Sheila S. Pfaender, M.S.

Senior Research Associate
Assistant Director for Program and Resource Development
The North Carolina Institute for Public Health
sheila_pfaender@unc.edu